

## Paper 2 : Multiple Choices

**General Instructions**

Section A : (30 questions)

- Section A (1) : About 14 Algebra Questions , with following common topics

目標：一分鐘一題，超過兩分鐘都做唔到就放棄

Topics	Questions in each year (Question no.)							
	SP	PP	2012	2013	2014	2015	2016	2017
Laws of indices	1	1	1	1	1	2	1	
Change of subjects	2	2		2			2	
Simultaneous Eq.			5		8	3	5, 13	
Identities	4	4	3	8	3	5		
Factorization	3	3	2	3	2	1	3	
Remainder/Factor thm	5	5	4	9			6	
Percentage (Simple)	10	10	8	10	9	9	10	
% change in area /vol	12	11			10			
Compound interest				11		10		
Quadratic equation : $\Delta$ or properties	7	6			4	7	8	
Quadratic equation : graphs	8	8	6	7	5	8	9	
Rate and ratio	13	12	9, 11	12	12	11	11	
Inequalities	9	9	7	5	7	6	7	
Variations	14	13	10	13	13	12	12	
Solving special eq.	6			6				
Sequences	11		12		14	13	14	
Estimation and errors		14	13, 14	4	11	4, 14	4	

Time used : Around 25 minutes

● Section A(2) : Geometry and Coordinate Geometry (About 10 questions)

The following common topics / methods-to-use usually exists :

策略：先做熟悉體型 (大概會有 5 題)，分半鐘一題

然後嘗試做一題圓形，一題平面幾何題 (每題大概兩分鐘)

全部幾何題不要用超過 20 分鐘，寧願犧牲時間做後面的 stat / probability

Topics	Questions in each year (Question no.)							
	SP	PP	2012	2013	2014	2015	2016	2017
<b>Easier Questions (較易體型) :</b>								
Area and Volume	17	15,16	16	17		16	18, 19	
直角三角形:sin/cos/tan			18		18	18	21	
圓形 : Angle in centre twice angle in circumference	22	21						
圓形 : Angle in semicircle	21	20				20		
直角三角形/畢氏定理	20	18	15	22	15	15	16	
正多邊形的特性 (interior / exterior $\angle$ )			22	21	22	22	24	
Trigonometric identity	19	23	19	23	19	19		
Coordinates : Rectangular $\rightleftharpoons$ Polar			23		23	23		
Coordinates : Rotation / Translation	26	25						
Equation of straight line			25		25	25	25, 26	
平行四邊形/菱形/梯形 /三角形 : 搵角度	18	19, 22			16		17	
旋轉/軸對稱	25	24		15			23	
<b>Harder Questions (較難體型) :</b>								
判斷 Locus 的形狀		26	24	24	24	24		
2-D Trigonometry	16, 24		21	16				
圓形 : Cyclic quad ; Tangents								
其他圓形			20	19	20, 21	21	22	
按底和高的比例/ $\sim \Delta$ s, 求面積 / 面積之比	23	17	17	18	17	17	20	
Equation of circle		27	26	25	26	26	27	

● Section A (3) : Data Handling (About 4 questions)

Topics	Questions in each year (Question no.)							
	SP	PP	2012	2013	2014	2015	2016	2017
Simple Probability		28	27	26	27		28	
Expected Value						27	29	
Bar Chart			29			28		
Pie Chart				30	29			
Stem-and-leaf diagram	28		28		30			
Box-and-whisker	27	29		29		29		
Mean / Median / Mode	29	30	30	27	28	30	30	
Abuses of statistics	30			28				

策略：

- 執分位，務求「快而準」，大約一分鐘一題
- Mean / Median / Mode 的題目可能要多用時間思考
- 2017 極大可能會出 Box-and-whisker / Stem-and-leaf diagram
- 這一部分不要用超過八分鐘(兩分鐘一題)。

Section B : About 15 questions

Topics	Questions in each year (Question no.)							
	SP	PP	2012	2013	2014	2015	2016	2017
<b>Easier Questions (較易體型) :</b>								
二進制 / 十六進制	33	32	33	33	34	33	33	
L.C.M. or H.C.F. of polynomials			31	31	31		31	
Rational functions 的加減乘除	31					31		
$i$	34	34	35	36	36	35	34	
Mode/Variance/sd/IQR 的轉變	45	44, 45	45	45	44, 45	45	44, 45	
Transformation of graphs	37	31	34, 38		38			
$nPr$ / $nCr$	44	43	43	44	43	43	43	
Probability	43		44			44	42	
Linear Programming	35		36			36	35	
Trigo 圖	42	38	39	39		39	37	
簡單的 A.S. / G.S.	36	35	37	38	37	37	36	
簡單的 2-D Trigo	38				39	38	38	
Log transformation	32	36, 37	32	32	32, 33	32	32	
<b>Harder Questions 較難題目 : (除非有大量時間，否則不要做)</b>								
Intersection of Circles and Lines		41	42	42	42	41	41	
三角形的四心		42		43		42		
A.S. / G.S. 應用題	39							
極繁複的 algebra 計算		33		34, 35	35	34		
沒有圖的 Linear Programming				37				
3-D Trigonometry	40	39	40	40	40	40	39	
超難的圓形	41	40	41	41	41		40	

● 策略 :

- 十五條內有大約十條均是常見體型，每條題目平均用兩分鐘完成，即不超過 20 分鐘。
- 餘下大約八分鐘，可先做 intersection of circles and lines ; 三角形的四心 (如有) ;
- 撞一下 3-D 及圓形。